MMM MMM MMM		MMM MMM MMM	111111111111111 1111111111111111 111111	AAAAAA AAAAAA AAAAAA	\	AAAAAA AAAAAA AAAAAA	A	00000000000 00000000000000000000000000	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	•
MMMMMM		MMMMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMMM	M	MMMMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMMM	M	MMMMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	PPP
	MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	PPP
	MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	PPP
	MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	PPP
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPPP)
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPPP)
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPPP)
MMM		MMM	TTT	AAAAAAAAAA	AAA	*****	AAAA	ČČČ	PPP	
MMM		MMM	TTT	AAAAAAAAAA		*****	AAAA	ČČČ	PPP	
MMM		MMM	TTT	AAAAAAAAAA	NAAA	AAAAAAAAAA		ČČČ	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMP,		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	000000000000000000000000000000000000000	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	000000000000	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČČČČČČČČČČČ	PPP	

MM MM MMM MMMM MMMM MMMMM MM MM MM MM MM	000000 00 00 00 00	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	YY Y
		\$		

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Page

(1)

MODULE MODIFY (LANGUAGE (BLISS32) , IDENT = 'V04-000'

BEGIN

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1 1 *

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0002 0003

0004 0005

0006 0007 0008

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0010 0011

0012 0013

0014

0015 0016

0018

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0022 0023

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0033 0034

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0051 0052 0053

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FACILITY: MTAACP

ABSTRACT:

This module executes the modify function. (This module has never been implemented because of design problems which caused race conditions in the execution. Maria Nasr)

ENVIRONMENT:

VMS operating system, including privileged system services and internal exec routines.

CREATION DATE: 18-JUL-77 AUTHOR: D. H. GILLESPIE.

MODIFIED BY:

V02-005 DMW00044 David Michael Walp 28-Oct-1981 Commented out all code but error checking for bad attributes

VO2-004 REFORMAT

Maria del C. Nasr

30-Jun-1980

0056 0057

MODIFY V04-000		N 8 16-Sep-1984 14-Sep-1984	02:25:09 12:46:43	VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]MODIFY.B32;1	Page 2 (1)
: 58 0058 : 59 0059 : 60 0060 : 61 0061 : 62 0062 : 63 0446 : 65 0448 : 65 0448 : 66 0449 : 67 0450	!** LIBRARY 'SYS\$LIBRARY:LIB.L32'; REQUIRE 'SRC\$:MTADEF.B32'; FORWARD ROUTINE MTA_MODIFY : NOPRES NOVALUE; EXTERNAL IO_PACKET : REF BBLOCK;	! main control	for modify		

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VAX-11 Bliss-32 V4.0-742

ĽMTAACP.SRCJMOĎIFY.B32:1

```
0453
0453
0455
0456
0457
0458
0458
 70
71
                        GLOBAL ROUTINE MTA_MODIFY : NOPRES NOVALUE =
 72
73
                        1++
 74757677
                          FUNCTIONAL DESCRIPTION:
                                 this routine executes the modify function
                          CALLING SEQUENCE:
 78
79
               0460
                                MTA_MODIFY()
               0461
              0462
 80
                          INPUT PARAMETERS:
 81
                                NONE
 82
83
              0464
                          IMPLICIT INPUTS:
 84
              0466
0467
                                 IO_PACKET - address of current io request packet
 85
               0468
 86
                          OUTPUT PARAMETERS:
              0469
0470
0471
 87
                                NONE
 88
 89
                          IMPLICIT OUTPUTS:
              0472
0473
0474
0475
 90
                                NONE
 91
 92
                          ROUTINE VALUE:
                                NONE
 94
              0476
 95
                          SIDE EFFECTS:
 96
               0478
                                this routine only handles user labels and end user label processing with
 97
               0479
                                next ast
              0480
0481
 98
 99
              0482
0483
100
101
                            BEGIN
               0484
102
103
               0485
                            EXTERNAL REGISTER
               0486
104
                                COMMON_REG;
               0487
105
               0488
106
                            LOCAL
               0489
107
                                ABD
                                          : REF BBLOCKVECTOR [, ABD$C_LENGTH],
                                                                                       ! addr of descr vector
108
               0490
                                CODE.
                                                                                attribute code
               0491
109
                                                                               pointer to attribute
                                PÁCKET : REF BBLOCK;
              0492
0493
110
                                                                              ! io packet address
111
               0494
112
                            PACKET = .10_PACKET;
113
               04.95
                                    = .BB[OCK[.PACKET[IRP$L_SVAPTE], AIB$L_DESCRIPT];
               0496
114
               0497
115
                            INCRU I FROM ABD$C_ATTRIB TO .PACKET[IRP$W_BCNT] - 1 DO
               0498
                                BEGIN
116
               0499
117
                                    = .ABD[.], ABD$w_TEXT] + ABD[.], ABD$w_TEXT];
               0500
                                 CODE = .(.P)<0, 8>;
118
119
               0501
              0502
0503
120
                                  check if code is in range
121
122
               0504
                                 if .CODE GTRU ATR$C_MAX_CODE THEN ERR_EXIT(SS$_BADATTRIB);
               0505
124
               0506
                                   only attributes that can be modified are user labels and end user
125
               0507
                                    labels and they are not supported
126
                                 ! all other attributes are droped on the floor for device independent
```

MODIrY V04-000 : 127 : 128 : 129 : 130 : 131 : 132 : 133	0509 0510 0510 0511 0512 0513 0513 0514 0515 0516	: sake if (.code eql then err_exit end;	C 9 16-Sep- 14-Sep- ATR\$C_USERLABEL) OR (.COD (SS\$_BADATTRIB);	1984 02:25:09	Page 4 (2)
133	0515 2 0516 1	END;		! end of routine	
				.TITLE MODIFY .IDENT \V04-000\ .EXTRN IO_PACKET .PSECT \$CODE\$,NOWRT,2	
		50 55 53 50	0000 00000 0000G CF DO 00002 2C BO DO 00007 32 AO 3C 0000B 53 D7 0000F 05 DO 00011 22 11 00014 6540 7E 00016 1\$:	.ENTRY MTA_MODIFY, Save nothing MOVL IO PACKET, PACKET MOVL a44(PACKET), ABD MOVZWL 50(PACKET), R3 DECL R3 MOVL #5, I BRB 5\$	0452 0494 0495 0497
			22 11 00014 6540 7E 00016 1\$: 61 3C 0001A 51 CO 0001D	MOVZWL (R1), P	0499
		51 54 54 52 30	61 3C 0001A 51 CO 0001D 64 9A 00020 52 D1 00023 02 1B 00026 34 BF 00028 52 D1 0002A 2\$: 05 13 0002D	ADDL2 R1, P MOVZBL (P), CODE CMPL CODE, #48 BLEQU 2\$ CHMU #52	0500 0504
		oc oc	34 BF 00028 52 D1 0002A 2\$: 05 13 0002D	CMPL CODE, #12	0511
		OF	05 13 00020 52 D1 0002F 02 12 00032 34 BF 00034 3\$: 50 D6 00036 4\$: 50 D1 00038 5\$: D9 1B 0003B	BNEQ 45 CHMU #52 INCL I	0512 0497
		53	50 D6 00036 4\$: 50 D1 00038 5\$: D9 1B 0003B 04 0003D	ČMPL I R3 BLEQU 1\$ RET	0516
; Routine Size:	62 bytes,	Routine Base:	SCODES + 0000		
; 135	0517 1				

MOI VO

END:

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Page

(3)

EXTERNAL REGISTER

COMMON_REG;

END:

CURRENT_WCB[WCB\$W NMAP] = 0:

CURRENT_VCB[VCB\$V_MUSTCLOSE] = 1;

216 217 218

219 220

0598

0599

0600

MOI

Page

(4)

```
0601
0603
0604
0606
0606
0607
0608
0611
0613
0616
0617
0618
                          !ROUTINE INS_USRLBL_ID (ADDR) : COMMON_CALL NOVALUE =
                       1 1++
                            FUNCTIONAL DESCRIPTION:
                                   this routine inserts the user label id into the user label
                            CALLING SEQUENCE:
                                   INS_USRLBL_ID(ARG1), CALLED IN KERNEL MODE
                            INPUT PARAMETERS:
                                   ARG1 - address of user label
                            IMPLICIT INPUTS:
                                   NONE
                            OUTPUT PARAMETERS:
                                   NONE
                0619
               0620
0621
0622
                            IMPLICIT OUTPUTS:
                                   first three characters of user label either 'uhl' or 'utl'
                            ROUTINE VALUE:
                                   NONE
                            SIDE EFFECTS:
                                   NONE
               0628
0629
0630
                            USER ERRORS:
                                   NONE
               0631
0633
0633
0634
0635
0637
0638
0641
0643
                               BEGIN
                               EXTERNAL REGISTER
                                   COMMON_REG:
                                If .CURRENT_VCB[VCB$B_TM] EQL 0
                                THEN
                                    (.ADDR)<0, 24> = 'UHL'
                                   (.ADDR)<0, 24> = 'UTL';
264
265
               0644
266
                               END:
                                                                                    ! end of routine
                       1 END
                0646
```

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VO

(6)

```
9
MODIFY
                                                                                              16-Sép-1984 02:25:09
14-Sép-1984 12:46:43
                                                                                                                                 VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]MODIFY.B32;1
                                                                                                                                                                                      Page
V04-000
                                              IF .COUNT NEG 4 THEN ERR EXIT(SS$ BADATTRIB);
IF .CURRENT_WCB EQL O THEN ERR EXIT(SS$ ILLUSRLBLWT);
IF .CURRENT_WCB[WCB$V_READ] THEN ERR_EXIT(SS$_ILLUSRLBLWT);
IF NOT .CURRENT_VCB[VCB$V_WAIUSRLBL]
AND NOT .CURRENT_VCB[VCB$V_MUSTCLOSE] THEN ERR_EXIT(SS$_ILLUSRLBLWT);
                       0662
0663
    285
286
288
288
291
293
293
                       0664
                       0665
                       0666
0667
                                              AST_BLOCK = .(.P);
                       0668
                                              BEGIN
                       0669
0670
                                              BUILTIN PROBER;
MODE = 0;
    294
295
                       0671
                                               LENGTH = 4:
                                               IF .AST BLOCK NEG O
    296
297
                                              AND (NOT PROBER (MODE LENGTH . AST BLOCK)
OR .AST BLOCK [ACBSB TYPE] NEG DYNSC ACB)
                       0674
    298
299
300
                       0675
                                               THEN ERR_EXIT(SS$_ICLLBLAST);
                       0676
0677
                                               IF .CURRENT_VCB[VCB$V_MUSTCLOSE] THEN
    301
                       0678
                                                    BEGIN
    302
303
                       0679
                                                     CLOSE_FILE():
                       0680
                                                    KERNET_CALL(TURN_OFF_WRITE);
    304
305
                       0681
                       0682
0683
                                              KERNEL_CALL(COMPLETE_USRLBL,.AST_BLOCK,.I .ABD);
    306
307
                       0684
                                     IF UNBLOCK NECESSARY DO IT NOW
    308
309
                       0685
                                              IF .CURRENT_VCB[VCB$V_WAIUSRLBL] THEN UNBLOCK(.CURRENT_VCB);
                       0686
0687
    310
    311
                       0688
                               0 ELUDOM
                                                         PSECT SUMMARY
           Name
                                                Bytes
                                                                                            Attributes
   $CODE$
                                                        62 NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN (2)
                                              Library Statistics
                                                                              Symbols -----
                                                                                                               Pages
                                                                                                                                 Processing
           file
                                                                  Total
                                                                                            Percent
                                                                               Loaded
                                                                                                               Mapped
                                                                                                                                 Time
    _$255$DUA28:[SYSLIB]LIB.L32;1
                                                                 18619
                                                                                     14
                                                                                                     0
                                                                                                               1000
                                                                                                                                   00:01.8
```

MOL

COMMAND QUALIFIERS

VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]MODIFY.B32;1

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MO1

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LISS: MODIFY/OBJ=OBJS: MODIFY MSRCS: MODIFY/UPDATE=(ENHS: MODIFY)

; Size: 62 code + 0 data bytes ; Run Time: 00:06.9 ; Elapsed Time: 00:16.4 ; Lines/CPU Min: 6008 ; Lexemes/CPU-Min: 18698 ; Memory Used: 76 pages ; Compilation Complete

0255 AH-BT13A-SE

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